

Synthesis and characterization of polyimide by introducing Triazine to improve the physical properties of the polymer for electronic device use

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Polyimide is one of the most outstanding performing polymer for electronic devices due to its chemical resistance, thermal stability and electrical property.

In this study, Polyimide has been synthesized and characterized by introducing triazine to the structure to improve its mechanical property and thermal property and adhesive property.

Polyimide film that contains triazine was prepared by using 6FDA as a dianhydride and 4,4-ODA as a diamine to synthesize the back bone of the Polyimide. The polymer was characterized by confirming the synthesis with the FT-IR. The TGA and DSC was used to measure the glass transition temperature and the 5% decomposition temperature of the polymer